

Form E - List of Tests and Procedures for
Geo-technical Engineering and Materials Testing & Inspection

Indicate your firm's local ability to perform the tests listed below. Please note that all tests and procedures shall be performed in accordance with standard AASHTO/ASTM methods, where applicable.

| <u>Yes</u> | <u>No</u> | <u>Test</u> |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | Hollow stem auger drilling |
| <input type="checkbox"/> | <input type="checkbox"/> | Rotary drilling (air, foam, mud) |
| <input type="checkbox"/> | <input type="checkbox"/> | Standard penetration testing |
| <input type="checkbox"/> | <input type="checkbox"/> | Natural moisture/groundwater conditions |
| <input type="checkbox"/> | <input type="checkbox"/> | Soil classifications (sieve analysis, Atterberg limits) |
| <input type="checkbox"/> | <input type="checkbox"/> | In-place density/unit weight |
| <input type="checkbox"/> | <input type="checkbox"/> | Soil solubility |
| <input type="checkbox"/> | <input type="checkbox"/> | Soil chemical analysis (pH, sulfates, etc.) |
| <input type="checkbox"/> | <input type="checkbox"/> | Soil expansion from moisture and chemical reaction |
| <input type="checkbox"/> | <input type="checkbox"/> | Soil consolidation/hydro-collapse potential |
| <input type="checkbox"/> | <input type="checkbox"/> | Soil resistivity |
| <input type="checkbox"/> | <input type="checkbox"/> | Direct shear strength (angle of internal friction, cohesion) |
| <input type="checkbox"/> | <input type="checkbox"/> | R-value |
| <input type="checkbox"/> | <input type="checkbox"/> | CBR value |
| <input type="checkbox"/> | <input type="checkbox"/> | Soil resilient modulus |
| <input type="checkbox"/> | <input type="checkbox"/> | Soil percolation |
| <input type="checkbox"/> | <input type="checkbox"/> | Pavement visual distress surveys (cracking patterns, rutting, humps, depressions, etc.) |
| <input type="checkbox"/> | <input type="checkbox"/> | Deflection testing (Dynalect, Road Rater or Falling Weight Deffectomer) |